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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/636,117	08/07/2003		Michael E. Buhl	502337	1586
53609	7590	07/28/2006		EXAM	INER
		NER VAN DEURE	CECIL, TERRY K		
483 NORTH SUITE 7	483 NORTH MULFORD ROAD SUITE 7				PAPER NUMBER
ROCKFORE	ROCKFORD, IL 61107			1723	

DATE MAILED: 07/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/636,117	BUHL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Mr. Terry K. Cecil	1723				
The MAILING DATE of this communication app						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 7-5-2	006.					
<u>'=</u> .	action is non-final.					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-22 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner.						
)⊠ The drawing(s) filed on <u>07 August 2003</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119						
		(d) an (f)				
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Application ity documents have been received i (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Mail Interview Summary Paper No(s)/Mail Da	•				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)				

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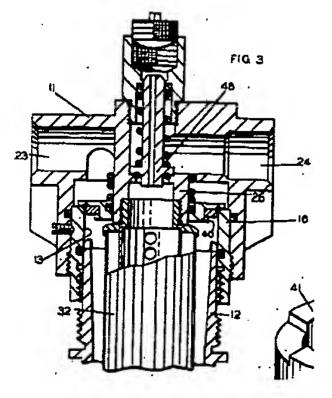
DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 2. Claims 1-5, 7-12, 15-20 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over the Suntec Model PRV-38 literature (hereinafter "Suntec") in view of Scavuzzo (U.S. 2,932,400. Suntec discloses a normally-closed valve assembly and valve actuator as required by the claims in an oil burner system. Suntec also discloses a filter upstream of the valve assembly (see the drawings thereof) but does not teach the valve assembly and filter combined via a filter head arrangement including a filter mounting stub. However, such is taught by Scavuzzo '400.



Scavuzzo teaches a filter head 11 including a filtering mounting stub 26, an annular flange and a normally closed valve. It is considered that it would have been obvious to one ordinarily skilled in the art at the time of the invention to have the valve and filter assemblies of Suntec to be combined such that a filter head is formed, as in

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Scavuzzo, since Scavuzzo teaches the benefit of preventing spills of fluid when the filter element is changed (col. 1, lines 30-38 and col. 3, lines 24-40). Having the filter element of Suntec immediately upstream of the normally-closed valve would prevent the loss of fluid from downstream thereof when the filter element is replaced. Upon modification, all the limitations of the aforementioned claims are met.

Concerning applicant's new limitation requiring fluid communication between the inlet port and filter head exit port when the filter is not mounted and nothing is mounted on the filter mounting stub, such is also taught by Scavuzzo. Support for applicant's amendment is shown in his figure 1, wherein nothing is mounted to the stub. In Scavuzzo's figure 1, when nothing is mounted to the filter stub (including the valve 40, removal of which necessarily requires the removal of sleeve 16), the inlet port is also in fluid communication with the filter head exit port.

3. Claims 6, 13-14, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over the modified Suntec in view of Moscaritolo (U.S. 6,471,853). These claims differ in that they require a vacuum gauge port defined in the outlet side of the body of the filter head. Moscaritolo teaches a port for a sensor (for measuring pressure e.g. col. 2, line 17). It is considered that it would have been obvious to one ordinarily skilled in the art at the time of the invention to have the port of Moscaritolo in the outlet side of the filter head of the modified Suntec, since Moscaritolo teaches the benefits of measuring filter performance characteristics in order to determine performance and whether a the filter element needs replacement (col. 1, lines 12-19).

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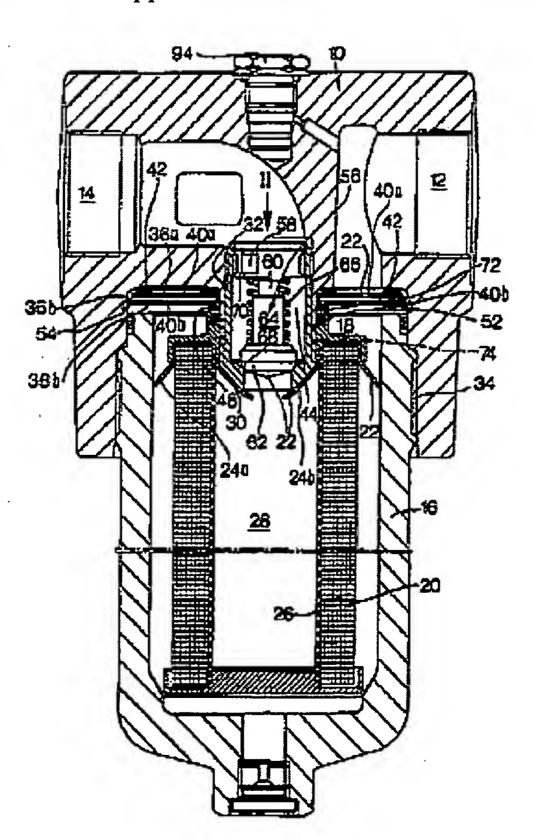
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Response to Arguments

4. Applicant's arguments, filed 7-5-2006, with respect to the claims have been fully considered and are persuasive. The final rejection of 6-8-2006 has been withdrawn. Also, as shown in the action above, applicant's new limitation requiring fluid communication between the inlet port and filter head exit port when the filter is not mounted and nothing is mounted on the filter mounting stub, is taught by Scavuzzo.

Other Pertinent Art

5. Before amending the claims applicant should also consider Sann et al. (U.S. 5,560,824).



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6. Contact Information:

- Examiner Mr. Terry K. Cecil can be reached at (571) 272-1138 at the Carlisle campus in Alexandria, Virginia for any inquiries concerning this communication or earlier communications from the examiner. Note that the examiner is on the increased flextime schedule but can normally be found in the office during the hours of 8:30a to 4:30p, on at least four days during the week M-F.
- Wanda Walker, the examiner's supervisor, can be reached at (571) 272-1151 if attempts to reach the examiner are unsuccessful.
- The Fax number for this art unit for official faxes is (571) 273-8300.
- Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner
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TKC July 25, 2006